

**Abstract**

**Optical device producing two beams capable of reaching a common sensor.**

The optical device comprises a first and a second optical sources (7,8) respectively emitting a first incident beam (10) and a second light beam (11) of different wavelength. Reflecting means, which may be a mirror (15), are arranged on the optical path of the first incident beam (10) so as to form a reflected light beam (12). The reflecting means are arranged proximate to the optical path of the second light beam (11) so that the reflected beam (12) and the second light beam (11) pass through a zone of the space (14), wherein an object to be analyzed is to be exposed, and reach a common sensor (13).

(Figure 3)